

## **SOW - Electrical works at TBR Compound - 2016:**

### **GRADE 'A' ELECTRICAL CONTRACTORS PREFERRED**

1. Coordinating with TNEB to shift the tariff meter from the existing panel room to the new location at individual houses. Total no. of tariff meter to be shifted - 6 nos.
2. Supply and install a panel board made of 3mm MS sheet powder coated finish, meet IP 65 requirements which consists of three compartments.
  - a) Compartment 1 consists of - 100A fuse carrier, one 100amps neutral link and earth link
  - b) Compartment 2 consists of space of fixing 100 amps tariff meter
  - c) Compartment 3 consists of one 100amps MCCB, L&T make

Total no. of panel boards – 6 nos.

3. Lay the supplied cable through the pipe line route.
  - a) From TNEB pillar box to the new panel board.
  - b) From DG to the ATS in the new panel room.
  - c) From the ATS to the distribution board inside the house.
4. Connect the cable to the Generator, panel board, ATS, stabilizer, and distribution boards using proper size copper glands for all six connections.
5. Shift the generators to the respective residence locations at TBR compound and position it to the new base in the allocated generator area.

Total no. of generators - 5 nos.
6. Commission the generator after connecting all the cables and check the parameters and ensure it's proper working condition. Total no. of generator commission – 5 nos.
7. Provide generator exhaust pipe line using 3" pipe and run the line up to the DG shed roof height. Total length: 50 ft.
8. Dig the earth to 3' X 3' X 8' depth .To provide earth pits for generator or EB panel using 300mm X 300mm X 9.75' cu. Plate with 19mm X 8' copper rod joint together with bracing and in compliance with latest IS. Fill up the pit using charcoal and salt. All earthing material shall be to vendor scope. The earth pit CI cover shall be 18"x18" heavy duty type. Vendors to attach typical earth pit drawing along with the bid. All necessary interconnection clamps for connecting the earth strip to the earth pipe etc. are within the scope of the vendor. To supply and lay 16sq.mm copper flexible wire from the earth pit to EB panel, generator neutral and generator body.

Total no. of earth point for generator neutral – 5 nos.

Total no. of earth point for generator body – 5 nos.

Total no. of earth point for EB panel – 4 nos.